

FIG.1

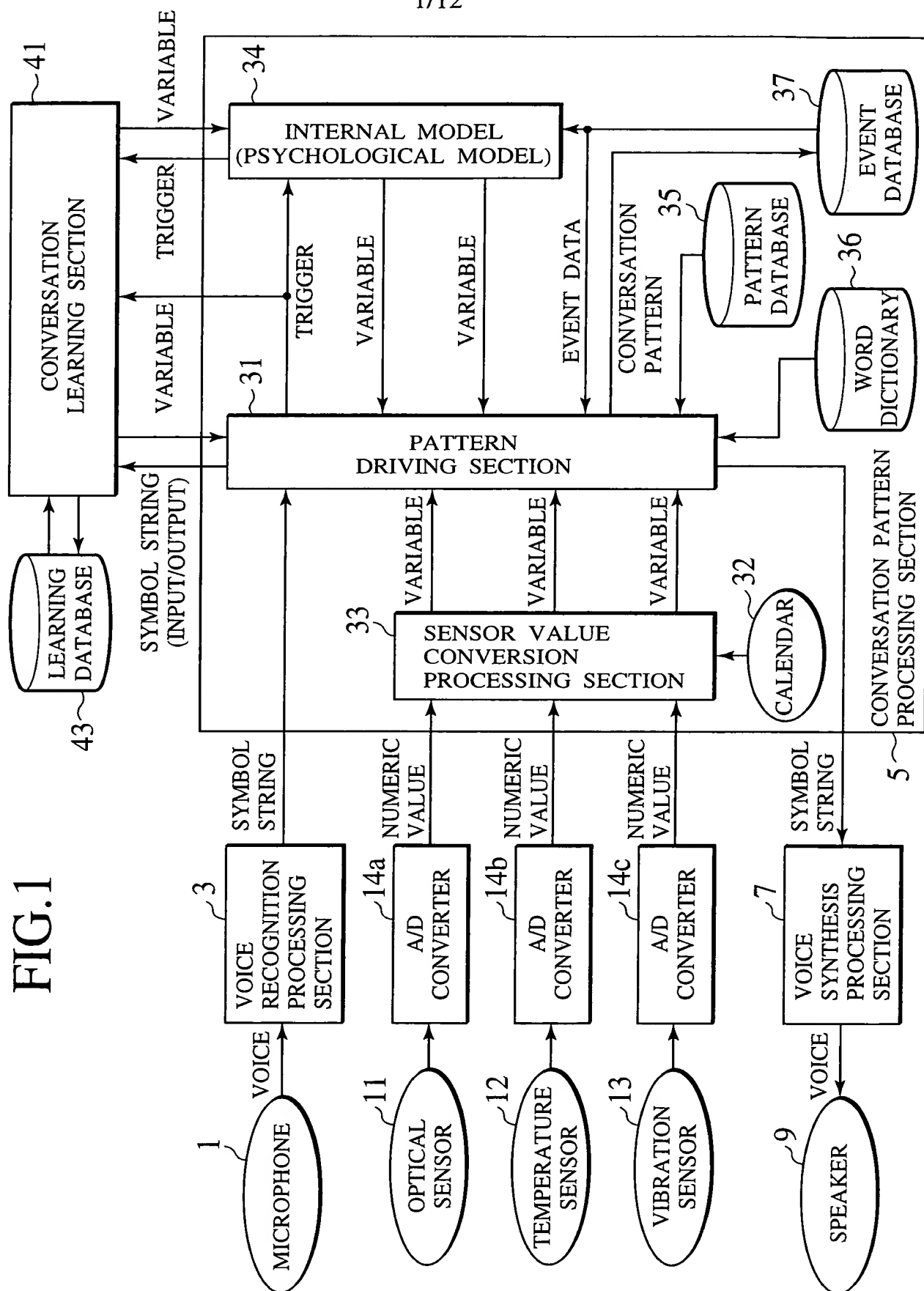
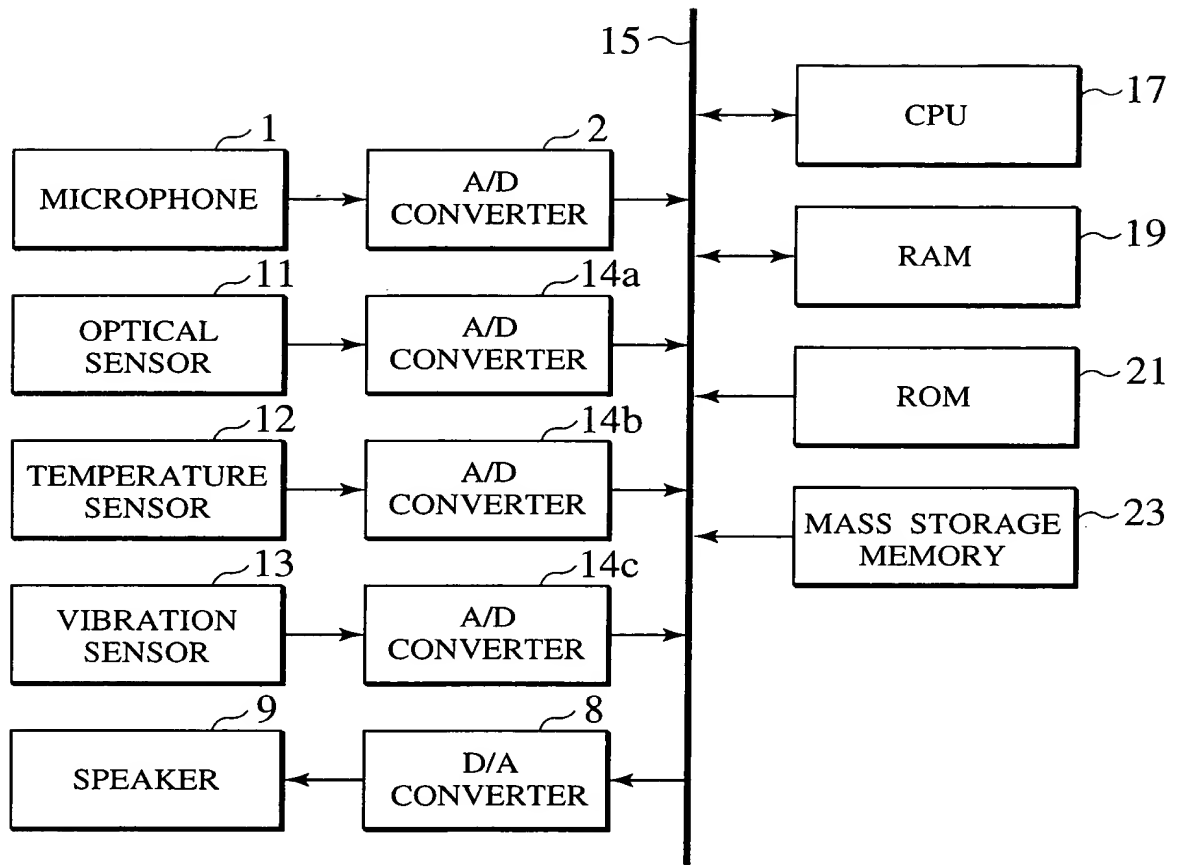


FIG.2



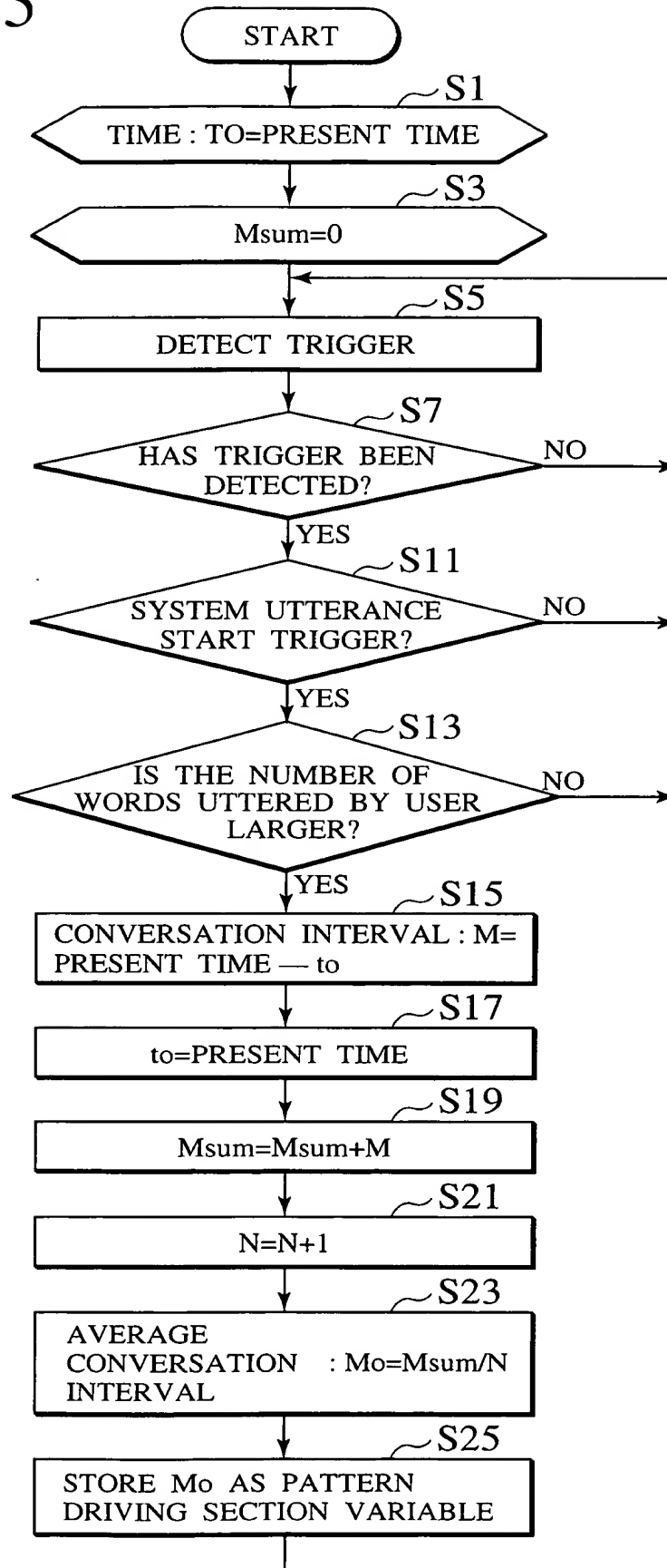


## FIG.4

EVENT ATTRIBUTE TABLE 39

ATTRIBUTE ID	ATTRIBUTE NAME
1	DESTINATION
2	DATE
⋮	
20	WEATHER
⋮	
1001	NAME OF PLAYER: BASEBALL
1002	TEAM NAME: BASEBALL
1003	BATTING AVERAGE: BASEBALL
1004	POSITION: BASEBALL
⋮	

FIG.5



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graph TD
    START([START]) --> S31[INITIALIZE MODE EVALUATION VALUE]
    S31 --> S33[DETECT TRIGGER]
    S33 --> S35{HAS TRIGGER BEEN DETECTED?}
    S35 -- NO --> S33
    S35 -- YES --> S37{SYSTEM UTTERANCE START TRIGGER?}
    S37 -- NO --> S33
    S37 -- YES --> S39{IS THE NUMBER OF WORDS UTTERED BY USER LARGER?}
    S39 -- NO --> S33
    S39 -- YES --> S41[TRIGGER TO REQUEST CANCELLATION OF EVALUATION MODE]
    S41 --> S33

```

FIG.7

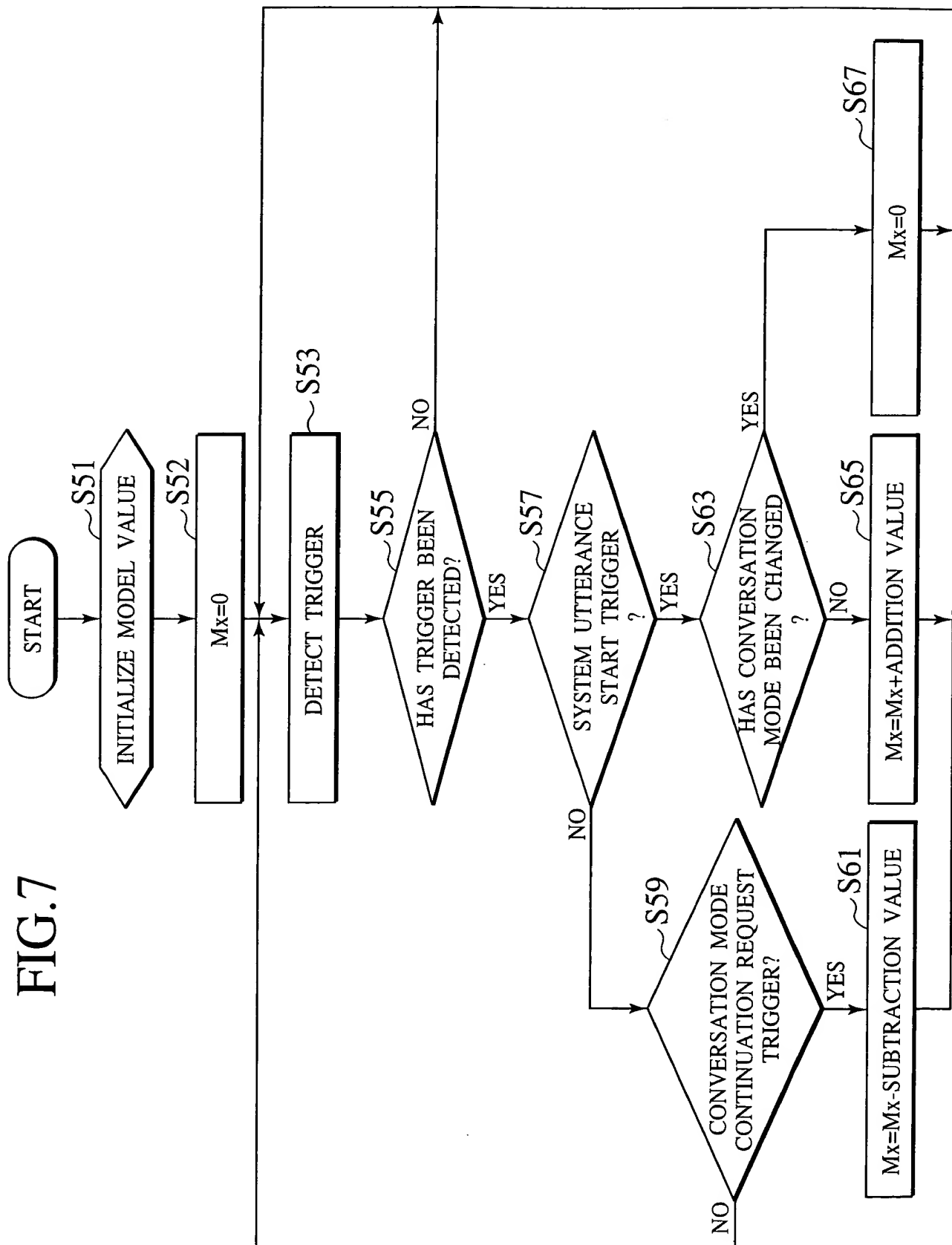


FIG. 8

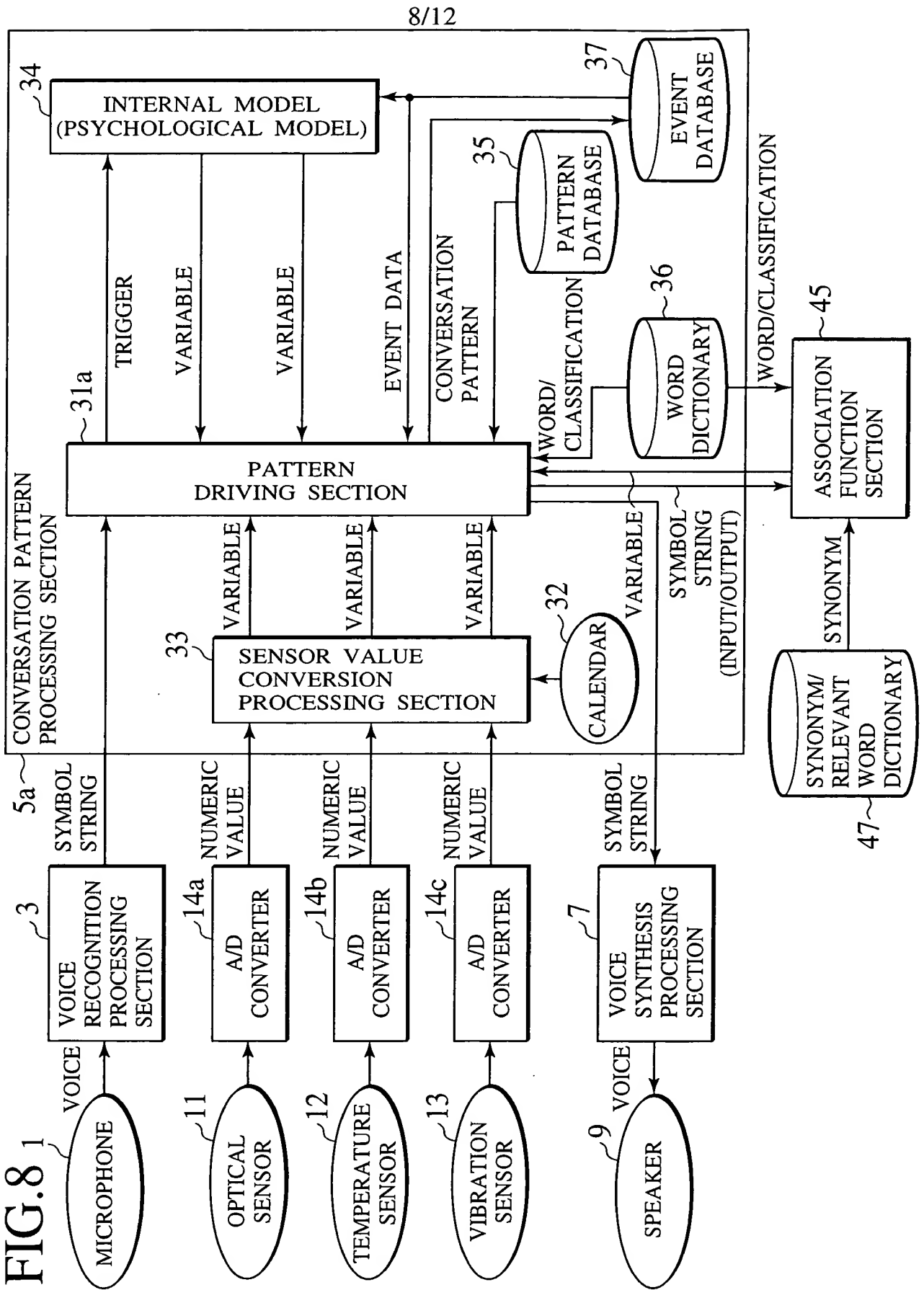
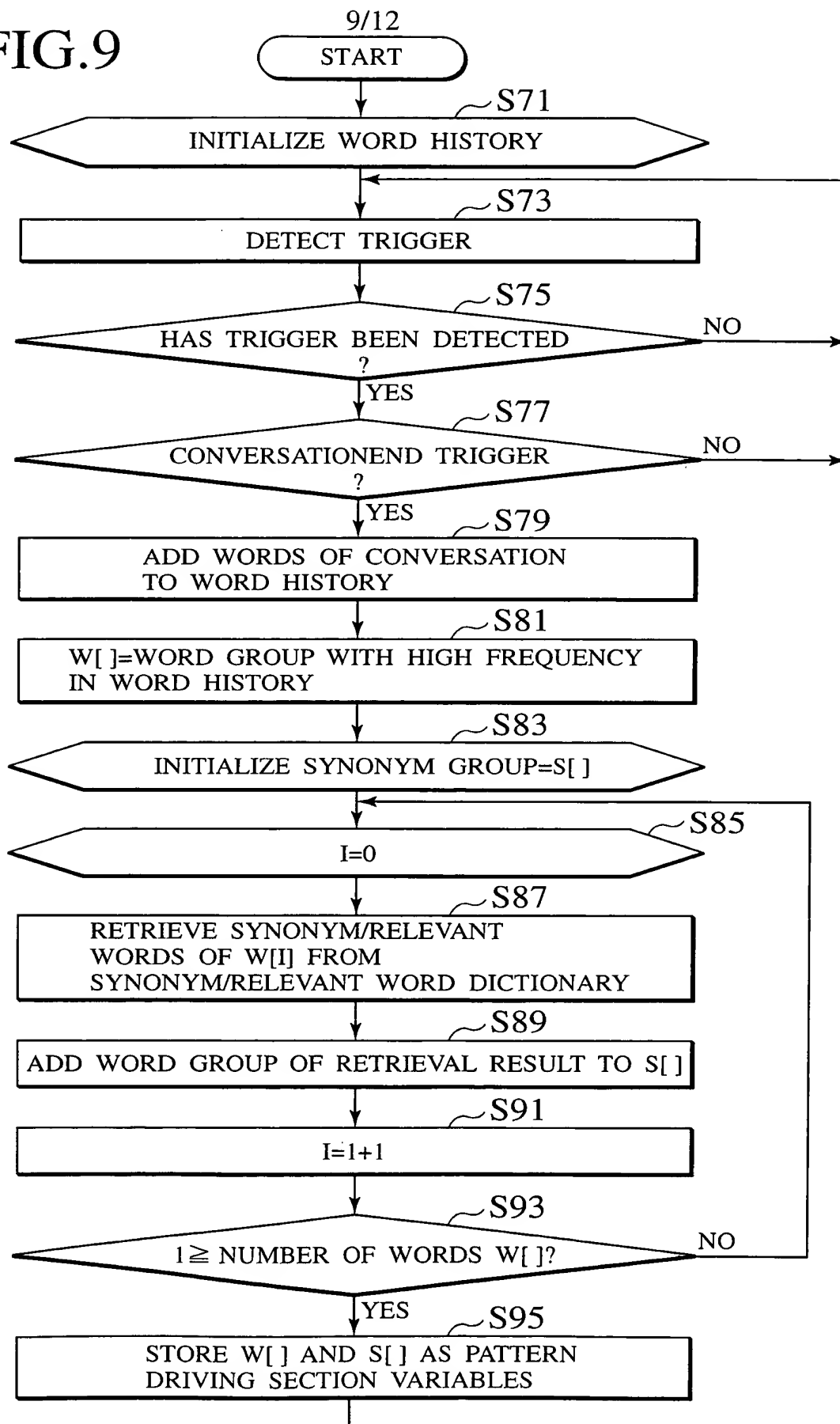




FIG.9



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FIG. 10

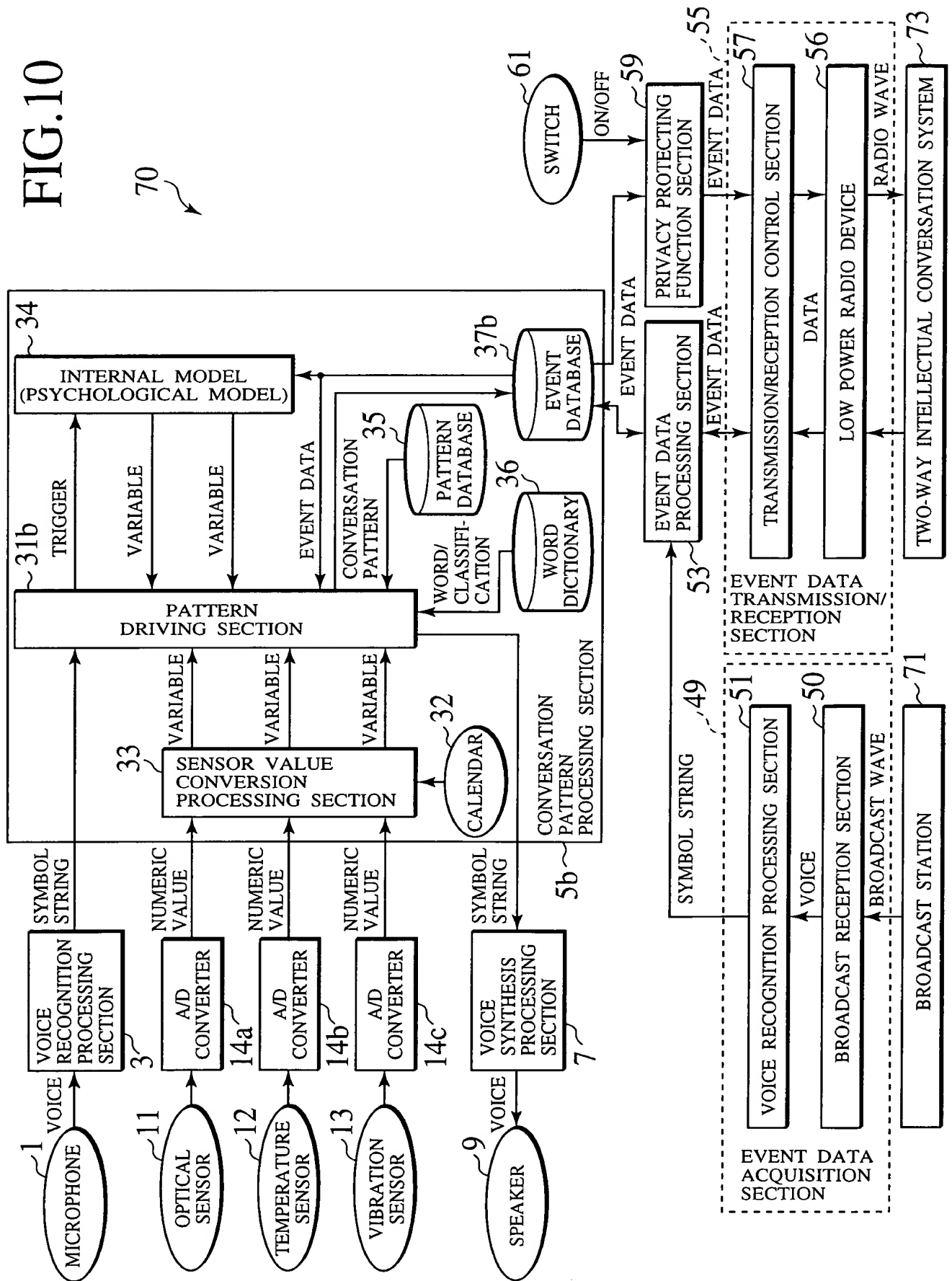


FIG.11

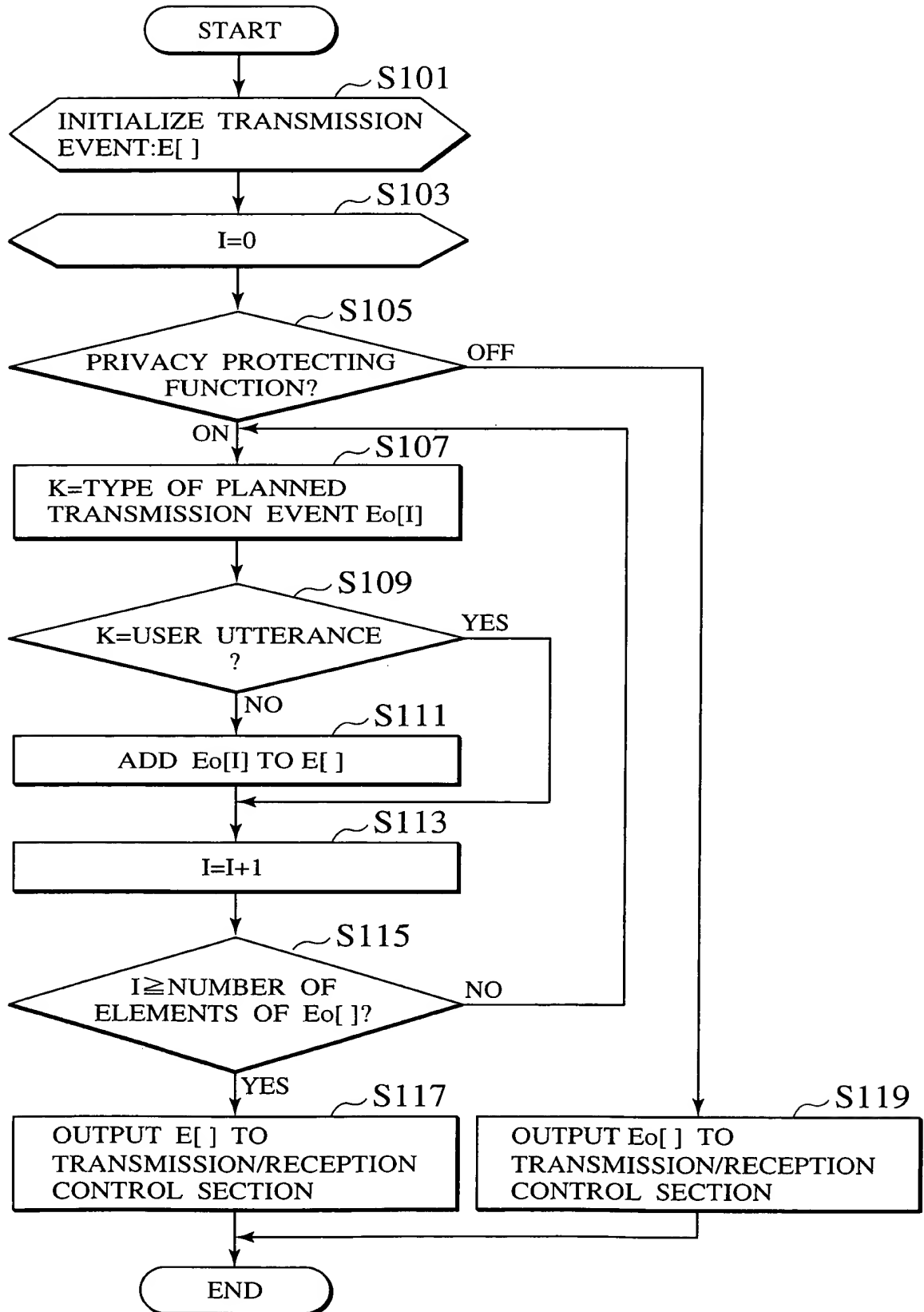


FIG. 12

The diagram illustrates a system architecture divided into two main parts: a Broadcast Station (71) and a Two-Way Intellectual Conversation System (73).

**Broadcast Station (71):**

- EVENT DATA ACQUISITION SECTION (49):** Contains a **BROADCAST RECEPTION SECTION (50)** and a **VOICE RECOGNITION PROCESSING SECTION (51)**.
- BROADCAST WAVE:** Transmitted from the Broadcast Station to the Two-Way Intellectual Conversation System.
- VOICE:** Input to the Voice Recognition Processing Section (51).
- SYMBOL STRING (51):** Output from the Voice Recognition Processing Section (51) to the Conversation Learning Section (41).

**Two-Way Intellectual Conversation System (73):**

- LOW POWER RADIO DEVICE (56):** Receives the Broadcast Wave and transmits a **RADIO WAVE**.
- TRANSMISSION/RECEPTION CONTROL SECTION (57):** Manages data flow between the Low Power Radio Device and the Event Data Processing Section (53).
- EVENT DATA TRANSMISSION/RECEPTION SECTION (55):** Facilitates the exchange of **EVENT DATA** between the Broadcast Station and the Two-Way Intellectual Conversation System.
- EVENT DATA PROCESSING SECTION (53):** Processes event data and outputs a **SYMBOL STRING (53)** to the Pattern Driving Section (31).
- PRIVACY PROTECTING FUNCTION SECTION (59):** Outputs a **SYMBOL STRING (59)** to the Association Function Section (45).
- SWITCH (61):** Controls the system's ON/OFF state.

**Central Processing and Learning Section (70):**

- CONVERSATION LEARNING SECTION (41):** Receives a **SYMBOL STRING (41)** from the Pattern Driving Section (31) and outputs a **SYMBOL STRING (43)** to the Learning Database (43).
- INTERNAL MODEL (PSYCHOLOGICAL MODEL) (34c):** Receives a **TRIGGER** from the Pattern Driving Section (31) and outputs **VARIABLE** signals to the Pattern Driving Section (31) and the Sensor Value Conversion Processing Section (33).
- PATTERN DRIVING SECTION (31):** Receives a **SYMBOL STRING (31)** from the Learning Database (43) and outputs a **SYMBOL STRING (31)** to the Internal Model (34c) and the Pattern Driving Section (31).
- SENSOR VALUE CONVERSION PROCESSING SECTION (33):** Receives **NUMERIC VALUE** signals (14a, 14b, 14c) from the Optical Sensor (11), Temperature Sensor (12), and Vibration Sensor (13) respectively. It outputs a **SYMBOL STRING (32)** to the Pattern Driving Section (31).
- PATTERN DATABASE (36):** Stores **PATTERN DATA** and outputs a **CONVERSATION PATTERN (35)** to the Pattern Driving Section (31).
- WORD DICTIONARY (37):** Stores **WORD/CLASSIFICATION** data and outputs a **WORD/CLASSIFICATION** signal to the Pattern Driving Section (31).
- ASSOCIATION FUNCTION SECTION (45):** Receives a **SYMBOL STRING (45)** from the Pattern Driving Section (31) and outputs a **SYMBOL STRING (47)** to the Synonym/Relevant Word Dictionary (47).
- CONVERSATION PATTERN PROCESSING SECTION (35):** Receives a **SYMBOL STRING (35)** from the Pattern Driving Section (31) and outputs a **SYMBOL STRING (35)** to the Pattern Driving Section (31).
- CALENDAR (32):** Receives a **SYMBOL STRING (32)** from the Pattern Driving Section (31) and outputs a **SYMBOL STRING (32)** to the Pattern Driving Section (31).

**Input/Output Devices:**

- MICROPHONE (1):** Outputs **VOICE** to the Voice Recognition Processing Section (51).
- OPTICAL SENSOR (11):** Outputs **NUMERIC VALUE (14a)** to the Sensor Value Conversion Processing Section (33).
- TEMPERATURE SENSOR (12):** Outputs **NUMERIC VALUE (14b)** to the Sensor Value Conversion Processing Section (33).
- VIBRATION SENSOR (13):** Outputs **NUMERIC VALUE (14c)** to the Sensor Value Conversion Processing Section (33).
- SPEAKER (9):** Outputs **VOICE** to the Voice Recognition Processing Section (51).

